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ABSTRACT

This study analyzes the nature and scope of doctoral theses in educational technology produced during 1960-1970. The review consisted of two segments: the first concerned the collection of data from doctoral granting institutions, while the second segment focused on classification categories as indicated by the doctoral recipients. A total of 468 doctorates in educational technology were granted by 26 institutions during this time period. The alphabetical listing by author in Part I provides the dissertation title, graduating institutions, and year of graduation. In Part II, dissertations are cited by title in one of 32 subareas (i.e., categories) as assigned by the recipients or the author. A list of the 36 participating institutions is attached. (RAO)

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MONOGRAPH

of

DOCTORAL STUDIES IN EDUCATIONAL TECHNOLOGY: 1960-1970

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1979

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PREFACE

This monograph, begun in 1971, originated as part of a project to investigate doctoral production in educational technology during 1960-1970. Initially, the target date for completion of the project was 1974. However, after the project was initiated, it became apparent that a project of this magnitude could not be completed within the scheduled time-table, particularly because the financial crisis of the mid-seventies dictated that this project be managed without benefit of released time or grant funds for necessary assistance. Further, since 1975, the time I was able to devote to this project was limited to the summer vacation.

Finally, this monograph could have never been prepared without the cooperation of many individuals. I want to express my appreciation to each of the 36 department chairpersons or program directors, and to the 285 doctoral respondents who returned the completed questionnaires. Thanks are also due Miss Noreen Saltini and Mrs. Rhonda Perera, former students at York College, for their able assistance on this project.

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September 1979

Introduction

At the outset, it is necessary to clarify that the term "educational technology" is used broadly in this paper to include academic programs which are variously called: educational media, educational media and technology, educational communications, instructional technology, instructional systems technology, instructional media, communications media, audiovisual education, among other combinations of these terms.

In the summer of 1971, a project was launched to conduct a study analyzing the nature and scope of doctoral production in educational technology during 1960-1970. The year 1960 was selected as the starting date of the study to insure that there would be no gap between this study and earlier studies conducted by John Moldstad of Indiana University, published by Audiovisual Communication Review in 1956, 1958, 1959 and 1961, and covering a period of almost thirty years, beginning in the 1930's and ending in September, 1960.

This study consisted of two parts: the first part was the collection of data from doctorate granting institutions; the second part was the collection of data from recipients of doctoral degrees at those institutions. Two questionnaires were designed for each of the respective purposes. The first questionnaire, requested the names of graduates who had completed educational technology doctorates, their years of graduation, their degrees (Ed.D. or Ph.D.), sex and dissertation titles, was forwarded in August, 1971 to all department chairpersons or program directors of educational technology offering doctoral degree programs, except Indiana University for which the information requested was already available in its publication, The Division of Instructional Systems Technology and AudioVisual Center (Mimeo, 1972). Subsequently, questionnaires were forwarded to those institutions that did not respond initially, to the extent of five mailings. Following the fifth mailing, telephone calls were made to those institutions that had not yet responded, and were encouraged to do so. They all did and, eventually, the rate of return was 100 percent.

Data provided by 36 colleges and universities show that, as of August, 1971, 26 offered doctoral degree programs in educational technology; the remaining 10 institutions offered only a certificate in educational technology, or as a minor discipline appended to a major degree. This study included only institutions offering doctoral degree programs as a major degree. The minor or certificate programs were not included. The names of the participating colleges and universities, offering major and minor programs as of August, 1971, may be found on pp. 89-94.

A total of 468 doctorates in educational technology were granted by 26 institutions during 1960-1970. The names of the doctorates and their dissertation titles, graduating institutions and year of graduation are presented in Part I: Educational Technology Doctoral Dissertations by Author (pp. 5-51).

The second questionnaire was designed so that each doctoral respondent was asked to select, from among a series of designated subject areas, the one that best described the contents of his or her dissertation.

Extended efforts were made to locate the current addresses of the doctoral respondents to whom the questionnaires were sent. A variety of sources including directories and convention program books of the Association for Educational Communications and Technology and the National Association of Educational Broadcasters, university bulletins, professional journals, Who's Who, among others, were carefully examined. This effort proved to be one of the most arduous tasks. It took one assistant an entire year, working 10 to 15 hours a week, to locate the addresses of 425 doctoral respondents, out of a total of 468. Forty-three questionnaires could not be completed because their authors had died, among other reasons.

The second questionnaire was initially mailed in 1973, following completion of the first questionnaire, to the 425 original doctoral respondents. Subsequently, from one to two further mailings were forwarded to non-respondents. The completed second questionnaires were returned by 285 persons, a return rate of 67 percent. In addition to providing data for statistical analysis, the information supplied on the second questionnaires became the primary basis for the

preparation of Part II: Educational Technology Doctoral Dissertations by Subarea (pp. 52-88).

There were 184 doctoral respondents who did not characterize their dissertations, including the 43 persons who had died or were otherwise unavailable, and 140 persons who did not respond to the survey. The dissertations of the 184 non-respondents were assigned to academic areas selected by the investigator of this project, on the basis of information available in Dissertation Abstracts, Research Studies in Education, among other sources.

It should be noted that fourteen different subareas of educational technology were listed on the questionnaires, as possible choices. A fifteenth area was left open for respondents to supply their own description. Many doctoral respondents did not choose from among the subareas listed, but supplied their own descriptions, generating 14 areas of dissertational studies to the list compiled by this investigator. This makes for a total of 25 subareas in educational technology. Thus, 25 doctoral subareas in educational technology were examined, covering 1960-1970.

This monograph is intended for use as a reference by advanced students and scholars in educational technology. The detailed reports, including statistical analyses of the results of the two surveys mentioned earlier, are not included in this monograph. Interested readers are referred to two other articles, one titled, An Analysis of Doctoral Production in Educational Technology: 1960-1970, and the other, Doctoral Research in Educational Technology.

Part I

Educational Technology Doctoral Dissertations by Author

Abeles, Howard R. The Audiovisual Director as an Agent and Object of Change in Selected Connecticut School Systems.
Teachers College, Columbia University, 1970. (Ed.D.)

Ahlman, Mirjam H. A Study of the Related Policies and Practices in the Provision of Radio and Television In-School Broadcast-Service by New York State Public School Systems in 1957-1958.
New York University, 1966. (Ph.D.)

Ahmad, Mahassen. The Effect of a Method of Presenting Concepts Dimensions on the Learning of Concepts Differing in Complexity and type.
Indiana University, 1969. (Ph.D.)

Aiken, Warren R. Toward a Learning System for Medical Education.
Ohio State University, 1970. (Ph.D.)

Ainsworth, Thomas D. Frequency of Visual Change as a Factor in Promoting Attention and Attitude Change in Multi-Channel Communication.
University of Southern California, 1970. (Ph.D.)

Allred, J. D. A Study of the Comparative Effectiveness of Three Methods of Teaching the Operation of Selected Audio-Visual Equipment.
University of Oklahoma, 1968. (Ed.D.)

Anderson, Edward. The Educational Media Building Coordinator: His Role as Perceived by School Administrators.
Michigan State University, 1970. (Ph.D.)

Andrews, Charles R. The Effect of Short-Term Interruptions Upon Factual Acquisition from Motion Picture Films Among Intermediate Elementary School Pupils.
University of Oklahoma, 1970. (Ed.D.)

Aquino, Charles C. A Study to Determine the Attitudes of Educators Following Study in the Area of Audiovisual Education.
Syracuse University, 1968. (Ph.D.)

Atkinson, F. D. The Effect of a Simulation Game Upon Learner's Sense of Control.
Syracuse University, 1970. (Ph.D.)

Averson, R. A. A Study of Foundation Support for Educational Programs on Television.
Syracuse University, 1969. (Ph.D.)

Aziz, Shallal A. Consideration for the Growth and Expansion of the Audio-Visual Program in the Iraqi Educational System.
Indiana University, 1960. (Ed.D.)

Baikie, David A. The Effects of Single and Combined Pictorial Cues on the Perception of Depth by Children Aged Five and Six from Two Socio-Economic Groups.
Indiana University, 1970. (Ed.D.)

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Indiana University, 1967. (Ed.D.)

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Ohio State University, 1961. (Ph.D.)

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Indiana University, 1963. (Ed.D.)

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Ohio State University, 1968. (Ph.D.)

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Michigan State University, 1963. (Ph.D.)

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Columbia University, 1965. (Ed.D.)

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Indiana University, 1969. (Ed.D.)

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Ohio State University, 1961. (Ph.D.)

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Boston University School of Education, 1970. (Ed.D.)

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Syracuse University, 1969. (Ph.D.)

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Syracuse University, 1967. (Ph.D.)

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New York University, 1970. (Ph.D.)

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Syracuse University, 1963. (Ph.D.)

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Indiana University, 1968. (Ed.D.)

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Iowa State University, 1970. (Ph.D.)

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University of Nebraska, 1965. (Ed.D.)

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New York University, 1961. (Ed.D.)

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Temple University, 1970. (Ed.D.)

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Indiana University, 1970.

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Ohio State University, 1961. (Ph.D.)

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Syracuse University, 1970. (Ph.D.)

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Teachers College, Columbia University, 1962. (Ed.D.)

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Zeimet, Edward J. Use of 2 X 2 Projection Slides in College Zoological Laboratories as Substitutes for the Conventional Practical Testing Method.
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Part II

Educational Technology Doctoral Dissertations by Subarea

1. UTILIZATION AND MANAGEMENT

An Analysis of the Position of Audio Visual Instructional Materials Building Coordinator in the Public Elementary Schools of New Jersey. (Herbert E. Scuorzo, Ed.D., New York University, 1963.)

An Analysis of the Practical Concepts Concerning the Role of Selected Audio-Visual Coordinators. (Albert E. Doremus, Ed.D., New York University, 1961.)

An Analysis of the Role of Audiovisual Directors in American Colleges and Universities. (George N. Torrey, Ed.D., Boston University, 1969.)

An Audio-Visual Approach to the Intermediate Grade Social Studies. (Donald A. Ingli, Ph.D., University of Wisconsin, 1961.)

Audio-Visual Competencies Useful in Teaching Four Subjects in the Intermediate Grades. (Betty Stoops, Ed.D., Indiana University, 1960.)

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Audio-Visual Programs in Senior High Schools in Georgia, 1967-68, with Recommendations for Improvement. (Warren G. Palmer, Ed.D., Indiana University, 1968.)

Audiovisual Services of Selected School Corporations in Indiana. (William F. Daniels, Ph.D., Indiana University, 1964.)

A Comparative Study of Two Types of Organization of Instructional Materials Centers. (Sedley D. Hall, Ed.D., The University of Nebraska Teachers, College, 1963.)

Consideration for the Growth and Expansion of the Audio-Visual Program in the Iraqi Educational System. (Shallal A. Aziz, Ed.D., Indiana University, 1960.)

The Cooperative Development of a College of Resource Materials for Use by the Consultants of the Wayne County, Michigan, Board of Education. (Charles W Worland, Ed.D., Columbia University, Teachers, College, 1960.)

Development of a Delivery System for Producing Low-Cost Customized Visual Materials and Studying Barriers to Optimal Use of the System in Developing Institutions: A Qualitative Analysis. (William L. Van Wormer, Ph.D., Ohio State University, 1969.)

The Development of Evaluative Criteria for the Services Provided Local School Districts by the Area Media Center. (Fred W. Petersen, Ed.D., University of Nebraska, 1969.)

The Educational Media Building Coordinator: His Role as Perceived by School Administrators. (Edward Anderson, Ph.D., Michigan State University, 1970.)

Educational Services Provided by Media Centers in Selected Elementary Schools. (Louis R. Jensen, Ed.D., University of Nebraska, 1970.)

The Effects of Selected Factors on the Use of Title III of the National Defense Education Act of 1958 for the Purchase of Audiovisual Equipment in Public Schools of Massachusettes for the Period of 1964-1967. (Fred J. Pula, Ed.D., Boston University, 1968.)

An Evaluation of the Audio-Visual Instructional Materials Program in the Public Schools of Great Neck, New York. (Charles E. Luminati, Ed.D., New York University, 1963.)

An Evaluation of Educational Media Programs in Oklahoma Public Schools. (Fred A. Teague, Ed.D., University of Oklahoma, 1966.)

An Evaluation of Teacher Utilization of Selected Educational Media in Relation to the Level of Sophistication of the Educational Media Program in Selected Oklahoma Public Schools. (Kenneth L. King, Ed.D., University of Oklahoma, 1969.)

An Exploratory Study to Develop a Method of Using Electronic Data Processing Techniques for Rapid Identification of Barriers to Optimum Utilization of Audio-visual Materials. (Robert H. Miller, Ed.D., Indiana University, 1965.)

Factors Affecting the Institutionalization of the U.S.A.I.D./Indiana University Communications Media Project in Nigeria. (Dennis W. Pett, Ed.D., Indianan University, 1966.)

Financial Analysis of a University AV Center with an Integrated Program of Training and Research, Campus Educational Services, and Off-Campus Services. (Edgar L. Richardson, Ed.D., Indiana University, 1967.)

A History and Descriptive Study of the Media Centers of the Montgomery County Public Schools, Montgomery County, Maryland (1948-1969). (John T. Gillespie, Ph.D., New York University, 1970.)

An Historical Survey of the Development of the Use of Audio-Visual Materials in Venereal Disease Educational Programs-1900 to 1949. (Theodore Blank, Ed.D., Boston University School of Education, 1970.)

The Influence of the National Defense Education Act of 1958 on the Seventeen Original Negro Land-Grant Colleges with Emphasis on Audio-Visual Education. (Larney G. Rackley, Ed.D., University of Oklahoma, 1962.)

An Investigation of the Administrative Structures for Media Services Functioning in Institutions of Higher Education in the United States and Its Territories. (Denzil Swiger, PH.D., East Texas University, 1968)

An Investigation of the Audio-Visual Instructional Materials Services at Thirty-Two Selected Private Colleges with Recommendations for a Projected Model Program of Audio-Visual Services for these Colleges. (William Kearney, Ed.D., New York University, 1962.)

Job Duties of the Full-Time Audio-Visual Directors in the Public Secondary Schools of the North Central Association Geographical Area. (Robert C. Wiseman, Ed.D., Indiana University, 1966.)

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Patterns of Organization and Administration of Instructional Resources at Selected Colleges and Universities. (James H. Spear, Ph.D., Iowa State University, 1969)

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The Development of a Series of Sound Slides and Manual for Use with In-Service Education Programs in Physical Education Activities Lessons in Grades K Through 6 for Use in the New York City Public School System. (Harvey J. Bien, Ed.D., New York University, 1968.)

An Analysis of the Relationship of Media In-Service Training to Teacher Media Utilization in the Public Schools. (Rawland G. Cresser, Ed.D., Boston University, 1968.)

Capillary Pulse Measure as a Means of Discriminating Flaws and Involvement Between Cognitive and Effective Test Questions. (Michael Belsky, Ed.D., University of Southern California, 1970.)

The Competencies in the Use of Audio Visual Materials Deemed Requisite in the Training of Teachers in the Public Elementary Schools of the State of New Jersey with Specific Reference to the Elementary Teacher Training of the State Colleges of New Jersey. (Ernest Siegel, Ed.D., New York University, 1967.)

An Investigation of Selected Personal and Professional Characteristics of Teachers and Their Preferences for Behavioral Objectives. (Earl P. Smith, Ph.D.,Syracuse University, 1970.)

Media Competencies in Teacher Education. (Edward C. Streeter, Ph.D., Michigan State University, 1967.)

Preservice Professional Training of Teachers in the Province of Ontario, Canada, as it Relates to Instruction in the Selection, Production and Utilization of Audio-Visual Instructional Materials. (Frederic R. Branscombe, Ph.D., New York University, 1970.)

A Proposed In-Service Program in Audio-Visual Education for Teachers in Industrial Schools in Cairo, Egypt. (Mohamed M.Hassouna, Ed.D., Indiana University, 1962.)

A Study Comparing Two Ways of Training Students to Observe the Classroom Teacher's Verbal Behavior. (Walter J. Mars, Ed.D., Syracuse University, 1964.)

A Study to Determine if the Theoretical Advantages of Team Teaching are Evident in the Programs of Selected Midwestern Elementary Schools. (John D. DiSanto, Ed.D., University of Nebraska, 1967.)

A Study of the Development of Teacher Training in the Skills for the Production of Audio-Visual Instructional Materials. (Fred Winston, Ph.D., New York University, 1960.)

26. CLASSROOM FACILITIES

A Comparison of Student Performance in Tasks Involving Familiar and Unfamiliar Materials When Viewed Under Varying Conditions of Projected and Ambient Light Combinations. (John R. Parkinson, Ph.D., Syracuse University, 1966.)

Lighting Angle Effects on Personality Judgements of Facial Photographs. (Henry L. Fueg, Ed.D., Indiana University, 1970.)

The Relationship Between Viewing Position and Achievement on Self-Paced Responses to Alphanumeric Characters. (Milton I. Patrie, Ed.D., Syracuse University, 1968.)

A Study of Current Practices in the Building and Planning of American High Schools to Accommodate the Individualization of Instruction. (J. Rodney Stickles, Ed.D., University of Nebraska, 1965.)

Utilization of Multimedia Classroom Facilities in Colleges and Universities in the United States. (William L. Millard, Ed.D., Syracuse University, 1970.)

27. EXHIBIT AND FIELD TRIP

An Experimental Study of Exhibit Arrangement and Viewing Method to Determine Their Effect Upon Learning Factual Material. (Paul V. Robinson, Ed.D., University of Southern California, 1960.)

Some Interrelationships Between Ethnic Attitudes and Brief Cultural Contacts Through Educational Tours: An Investigation Based on the Written Responses of Educational Tour Members Traveling Under the Direction of the Travel Division of the National Education Association in the Summer of 1958, to a Written Social Distance Scale and a Written Stereotype Scale Pertaining to National, Racial, and Religious Groups. (Wayne Howell, Ed.D., Indiana University, 1962.)

28. COPYRIGHT LAW

Development of the Copyright Law and a Survey of Contemporary Educational Practices as They Relate to Law. (Robert A. Cox, Ed.D., Syracuse University, 1967.)

29. NEWSPAPER AND MAGAZINE

The Magazine Vanity Fair and Its Ability to Interpret and Reflect the Literacy Trends of It's Times. (Harold Baron, Ph.D., New York University, 1970.)

The Treatment of the Little Rock Arkansas School Intergration Incident in the Daily Press of the Union of South Africa, West Nigeria, and Ghana from September 1st to October 31st, 1957.(Michael Traber, Ph.D., New York University, 1960.)

30. PROPAGANDA

The Effect of Verbal Interaction on the Serial Reproduction of Rumor. (John R. McAdams, Ed.D , Indiana University, 1962.)

An Inquiry Into a Possible Relationship Between Propaganda and the Fall of Shanghai, 1949. (Ruth B. Crone, Ph.D., New York University, 1961.)

A Propaganda Analysis of the Pacifist Communication of the Catholic Worker Movement in the United States from 1933-1965. (Donald J. Stinson, Ph.D., New York University, 1969.)

31. LIBRARY AND INFORMATION SCIENCE

An Analysis and Evaluation of the Use of Educational Media in the Teaching of Library Science in Accredited American Graduate Library Schools. (Herman L. Totten, Ph.D., University of Oklahoma, 1966.)

An Analytic Study of the Expert and Nature of the Reviewing of Juvenile Books in Eight Journals and Newspapers with Special Regard to Their Usefuleness as Selection Aids for School Libraries. (Mable L. Galloway, Ed.D., Columbia, University, 1965.)

The Community College Library; An Appraisal of Current Practice. (Helen R. Wheeler, Ed.D., Columbia University, 1964.)

Design of a File Structure for a Total System Computer Program for Medical Libraries and Programming of the Book Citation Retrieval Module. (Robert T. Divett, Ed.D., University of Utah, 1968.)

Guidelines for Improving the Preparation and Selection of Textbooks for Primary Schools in the United Arab Republic. (Yassa Zaki Saad, Ed.D., Teachers College, Columbia University, 1968.)

Interest Profiles for Information Dissemination. (Richard C. McLaughlin, Ph.D., Syracuse University, 1969.)

Phillipine Cultural Features: The Extent to Which They are Reflected in Reading Selections and the Role of These Features in Education and Textbook Preparation. (Bernabe H.Kapili, Ph.D., New York University, 1969.)

A Plan for the Continued Development of the Newark State College Library. (Joseph W. Rendell, Ed.D., Columbia University, Teachers College, 1960.)

State Film Library Service at the University of Nebraska Extension Division: Its Present and Future Development. (Robert N. Johnson, Ed.D., University of Nebraska, 1967.)

A Survey of Mechanization and Automation in Large University Libraries. (Boyd M. Bolvin, Ph.D., University of Southern California, 1970.)

Words and Pictures: An Exploratory Study of Their Use in the Print Medium. (William B. Oglesby, Ph.D., Indiana University, 1967.)

32. OTHER

An Analysis of Current Freshman English Programs in Institutions of Higher Education. (Gordon Holland, Ph.D., Michigan State University, 1970.)

A Case Study of a Categorical Federal Aid. (J.W. Westfall, Ed.D., University of Maryland, 1969.)

Development and Operationalization of a Model for the Evaluation of Proposals Submitted for Funding Under Categorical Aid Programs. (James R. Swanson, Sr., Ph.D., Florida State University, 1970.)

The Effect of Professional Laboratory Observational Experiences on Achievement in a Basic Foundation Course in Education at the University of Oklahoma. (Bille E. Fancher, Ed.D., University of Oklahoma, 1962.)

An Estimation and Examination of the Structural Element of Prose Writing. (Richard H. Barbe, Ph.D., Ohio State University, 1961.)

An Experimental Evaluation of Operating Characteristics of an Intrinsic Program on Powers and Exponents of Numbers. (Roger A. Kaufman, Ph.D., New York University, 1964.)

An Investigation of Creative Thinking Among College Students. (Taher A. Razik, Ph.D., Ohio State University, 1963.)

John Haynes Holmes' Published Opinion on Human Freedom. (Edward H. Rockey, Ph.D., New York University, 1967.)

A Manual for the Organization and Administration of a Non-Profit Community Program in the Creative Arts for Children. (Lillian F. Chaplin, Ed.D., New York University, 1967.)

A Study of California History Knowledge Possessed by High School Seniors Compared with Adults. (Armen Sarafian, Ph.D., University of Southern California, 1964.)

A Study of Communications Materials Provided by Colleges and Universities of New York City to Assist High School Guidance Counselors. (Stan H. Mullin, Ph.D., New York University, 1961.)

A Survey and Appraisal of the Position of City School System Public Relations Director. (John E. Hinton, Ed.D., Indiana University, 1961.)

Participating Institutions Offering Doctoral Degree Programs in Educational Technology

There were 36 participating institutions in this project. The names of department chairpersons or program directors who supplied the data requested, and the names of the participating institutions, are listed below. Listed first are the 26 universities offering doctoral degrees in educational technology as a major during 1960-1970.

Prof. Mendel Sherman
Director
Division of Instructional Systems Technology
Audio Visual Center
Indiana University
Bloomington, Indiana 47401

Prof. D. P. Ely, Chairman
Department of Instructional Technology
School of Education
Syracuse University
Syracuse, New York 13210

Prof. Robert Fite, Director
Educational Communications Program
School of Education
New York University
New York, N. Y. 10003

Prof. H. R. Miller, Chairman
Department of Instructional Technology
School of Education
University of Southern California
Los Angeles, California 90007

Prof. C. F. Schuller, Director
Programs in Instructional Development and Technology
College of Education
Michigan State University
East Lansing, Michigan 48823

Prof. I. K. Tyler
Audio Visual Communications and Television
Department of Curriculum and Foundations
College of Education
Ohio State University
Columbus, Ohio 43210

Prof. L.J. Briggs, Director
Instructional Systems Development Program
Department of Educational Research
College of Education
Florida State University
Tallahassee, Florida 32306

Prof. W.C. Meierhenry
Department of Educational Administration
Teacher's College
University of Nebraska
Lincoln, Nebraska 68508

Prof. Phil C. Lange
Coordinator of Instructional Technology
Program
Teacher's College
Columbia University
New York, N. Y. 10027

Prof. W.R. Fulton, Director
Materials Center
Department of Audio Visual
Methods and Materials
College of Education
University of Oklahoma
Norman, Oklahoma 73069

Prof. G.B. Kelley, Director
Graduate Media Program
Dept. of Curriculum and Instruction
School of Education
Boston University
Boston, Massachusetts 02215

Prof. F.A. White, Director
Division of Educational Communications
Instructional Technology Program
Dept. of Curriculum and Instruction
School of Education
University of Wisconsin
Madison, Wisconsin 53706

Prof. R. Bryan, Director
Educational Media
College of Education
Iowa State University
Ames, Iowa 50010

Prof. B. Murphy, Head
Audio Visual Educational Center
Audio Visual Educational Department
School of Education
East Texas State University
Commerce, Texas 75428

Prof. W.D. Brumbaugh, Director
Educational Media Program
Department of Educational Administration
Graduate School of Education
University of Utah
Salt Lake City, Utah 84112

Prof. G.M. Torkelson
Program in Learning Resources
Dept. of Curriculum and Instruction
College of Education
University of Washington
Seattle, Washington 98105

Prof. J.W. Popham, Director
Product Research Training Program
Graduate School of Education
University of California at Los Angeles
Los Angeles, California 90024

Prof. C.W.H. Erickson, Director
Audio Visual Center
Advanced Audio Visual Specialist Program
Field of Curriculum
The Graduate School
University of Connecticut
Storrs, Connecticut 06268

Prof. N.P. Pearson
Audio Visual Education
Department of Secondary Education
College of Education
University of Minnesota
Minneapolis, Minnesota 55455

Prof. G.K. Butts, Chairman
Department of Instructional Materials
College of Education
Southern Illinois University
Carbondale, Illinois 62901

Prof. T.A. Razik
Director of Instructional Communications
Department of Curriculum Development
and Instructional Media
School of Education
State University of N.Y. at Buffalo
Buffalo, New York 14214

Prof. D.P. Wedberg, Director
Educational Technology Center
College of Education
University of Maryland
College Park, Maryland 20742

Prof. R.L. Gordon, Director
Department of Educational Media
College of Education
Temple University
Philadelphia, Pennsylvania 19122

Prof. J.R. Bullard
Department of Educational Media
College of Education
University of Iowa
Iowa City, Iowa 52240

Prof. D.H. Shoemaker, Director
Audio Visual Section
Dept. of Curriculum and Instruction
School of Education
University of Virginia
Charlottesville, Virginia 22903

Dr. Patrick Sullivan, Director
Center for Media Technology
School of Education
University of Massachussetts
Amherst, Massachussetts 01002

Below are the names of department chairpersons or program directors and institutions that offered a doctoral degree program in educational technology as a minor during 1960-1970:

Prof. W.E. Hug, Director
Department of Educational Media
School of Education
Auburn University
Auburn, Alabama 36830

Prof. V.S. Gerlach, Chairman
Department of Library Science
College of Education
Arizona State University
Tempe, Arizona 85281

Prof. M.D. Merrill, Director
Dept. of Instructional Research
and Development
College of Education
Brigham Young University
Provo, Utah 84601

Prof. O. McBride, Program Head
Library Media Graduate Academic Program
Division of Administration, Supervision,
Curriculum, Library Media, and Higher Education
School of Education
University of Colorado
Boulder, Colorado 80302

Prof. G. L. McConeghy, Chairman
Department of Instructional Media
College of Education
Northern Illinois University
Dekalb, Illinois 60115

Prof. C. McIntyre, Director
Office of Instructional Resources
School of Education
University of Illinois
Urbana, Illinois 61801

Prof. P. Welliver
Educational Psychology Department
College of Education
Pennsylvania State University
University Park, Pennsylvania 16802

Prof. D.L. Nicholas, Director
Media Education Center
Media Education Program
Department of Curriculum and Instruction
College of Education
University of Texas
Austin, Texas 78712

Prof. C.I. Whiteneck, Chairman
Educational Media Section
Department of Education
School of Humanities, Social Sciences,
and Education
Purdue University
West Lafayette, Indiana 47907

Dr. Bettye Johnson, Director
Audio Visual Education Program
College of Education
Texas Tech University
Lubbock, Texas 79409